

These goals are reached with a coffee-maker able to function with cartridges, comprising means for supplying hot water to an infusion head able to receive at least two cartridges of different sizes each having at least one flat seating surface, means for placing said means for supplying in communication with the product contained within the cartridges in order to obtain a beverage, as well as means permitting said beverage leaving the cartridge to be directed towards a beverage collecting container, where said infusion head has a support having at least one hollow forming a housing for at least two cartridges of different sizes, by the fact that said hollow has the same peripheral annular seat common to several cartridges of different seat diameters, one or more parts of the external edge of said peripheral seat forming a vertical wall for common indexing of said cartridges.

By infusion head one generally understands the part of the machine where the infusion occurs or the part that, on the one hand, supports the infusion or percolation product, and on the other hand, ensures the arrival of hot water under pressure in contact with the infusion or percolation product.

By seating surface of a cartridge one understands a surface, generally flat, with which the cartridge bears on a wall forming a support of a housing provided for this purpose inside the infusion head. The seating surface generally borders the receptacle containing the product to be infused and has, by this fact, a peripheral dimension larger than that of the receptacle. This seating surface should be sufficiently rigid and have sufficiently large dimensions to allow a cartridge to be held in place without a deformation of the cartridge or a displacement of the latter occurring under the force of a perforation body or of infusion water under

CLAIMS

1. Coffee-maker able to function with cartridges, comprising means for supplying hot water to an infusion head able to receive at least two cartridges (2,2') of different sizes each
5 having at least one flat seating surface, means for placing said means for supplying in communication with the product contained within the cartridges in order to obtain a beverage, as well as means permitting said beverage leaving the cartridge to be directed towards a beverage collecting
10 container, where said infusion head has a support (11) having at least one hollow (29) forming a housing for at least two cartridges (2,2') of different sizes, characterized in that said hollow (29) has the same peripheral annular seat (35) common to several cartridges (2,2') of different seat
15 diameters, one or more parts of the external edge of said peripheral seat (35) forming a vertical wall for common indexing of said cartridges (2,2').
2. Coffee-maker according to claim 1, characterized in that one cartridge is indexed with respect to one of the vertical
20 side walls (39) of said hollow.
3. Coffee-maker according to claim 1, characterized in that one cartridge is indexed with respect to at least two vertical walls of said hollow facing each other.
4. Coffee-maker according to one of claims 1 to 3,
25 characterized in that said hollow (29) comprises at least one rib (41) for guiding said cartridges (2,2') in the longitudinal and/or transverse direction.
5. Coffee-maker according to one of the preceding claims, characterized in that said hollow comprises an opening

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bordered by a centering wall (50) for a cartridge (2') of broad format, the lower periphery of said wall being connected to a horizontal peripheral seat (35) whose internal diameter forms a support for a cartridge (2) of narrow format, the
5 circular internal edge of this peripheral seat (35) being connected with a collecting zone (47) in the form of a downwardly directed funnel.

6. Coffee-maker according to one of the preceding claims, characterized in that said hollow (29) is intended to
10 cooperate with at least two injection needles (19,21) of different heights.

7. Coffee-maker according to claim 6, characterized in that said injection needles (19,21) are offset radially with respect to the axis of said hollow (29), the longest needle
15 (19) being the furthest from the center.

8. Coffee-maker according to one of the preceding claims, characterized in that said infusion head has two side-by-side hollows (29,31) in a common support (11).

9. Coffee-maker according to claim 8, characterized in that
20 said two hollows (29,31) each have one peripheral annular seat (35,37) presenting at least one common vertical indexing wall, the two seats being located at the same level.

10. Coffee-maker according to claim 9, characterized in that said two hollows (29,31) each present a vertical indexing wall
25 (39,40), the two walls being located at one side and the other of a partition (36) separating said hollows (29,31).

11. Coffee-maker according to one of the preceding claims, characterized in that said support (11) is removably mounted in the infusion head.